

OS10 séries

TECHNIC-ACHAT

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Microstepping drives 18Vdc(16Vac)...240Vdc(65Vac) 0.3Arms...10Arms (14.1Apk)

High reliability and performance, compact size and low cost are the main characteristics of the drives of the OS10 and LS10 series.

Realized in open design they can be easily integrated inside equipments and cabinet. The drive is mountable through 4 holes placed on the corners of the OS10 board, or through 2 holes for the wall mounting LS10 series.

The connection to the motor, with the logical signals and to the power supply is through three different terminal blocks, each one numbered and suitable for 2.5mm² wire size.

Using the last electronic components generation and the SMT technology it has been possible to obtain in a small space high power and advanced performances.

The many setting options available allow to use the drives with any kind of motor and application. The phase motor current can be tuned fine in a wide range of value as the step resolution, the current reduction, etc.

Each logic signal can be set independently from the other to PNP or NPN logic, each input can also be driven using line-driver technology.

The drive is fully protected to preserve its integrity from the most common problems.

The diagnostics is complete and univocally signals whenever one or more protections occur. Furthermore a break motor phase diagnostics is also available, very useful to determine wiring problems or motor failures.

The drive setting and diagnostics is very easy with the free UDP Commander Windows software.

The connection to the programming DUP port of the drive is obtained through the UDP30 interface (see below), which is connected to the PC by the USB port. The interface ensures also the electrical insulation between the PC and the drive.

- ✓ Compact size
- ✓ Decimal and binary resolution
- ✓ Resolution up to 25,600 step/rev
- ✓ STEP frequency over 300KHz
- ✓ <u>Built-in oscillator</u> for start/stop mode
- ✓ Gate function
- ✓ Resonance damping
- ✓ Automatic current reduction
- ✓ Accurate current control
- ✓ Chopper frequency over 20KHz
- ✓ High efficiency power mosfet stage
- ✓ AC power supply models available
- ✓ Optocoupled and differential I/O, independently NPN or PNP usable
- ✓ Inputs working from <u>3Vdc up to 28Vdc</u> with constant current
- ✓ Line driving supported
- ✓ Digital signal conditioning for each I/O
- Complete diagnostics with univocal indication for each anomaly
- Over/under voltage protection, short circuit protection (cross phase, ground and positive supply)
- Overheating protection
 - Break motor phase diagnostics
- ✓ Connections on screw terminal block
- ✓ Low cost







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Symbol	Description			Value			Unit		
Syllibol				Min	Typ	Max	Unit		
Vp	Power supply voltage (for D	C models)	O\$1041(A)	18	тур	50	Vdc		
Vac	11 2 2 3	,	L\$1041(A)	16		36	Vac		
lf If	Power supply voltage (for AC models) Motor phase current (rms)		L31041(A)	0.3		1.4	Arms		
Vp	Power supply voltage (for DC models)		O\$1044(A)	20		50	Vdc		
Vac	Power supply voltage (for AC models)		LS1044(A)	18		36	Vac		
lf	Motor phase current (rms)		L31044(A)	1		4	Arms		
	Power supply voltage	O\$1048	20		50	Vdc			
Vp If	Motor phase current (rms)	LS1048	3		8	Arms			
	Power supply voltage (for D				_				
Vp		OS1073(A)	24		90	Vdc			
Vac	Power supply voltage (for A	LS1073(A)	20		65	Vac			
<u>lf</u>	Motor phase current (rms)			0,8		3	Arms		
Vp	Power supply voltage	LS1074	24		90	Vdc			
lf .	Motor phase current (rms)		1		4.5	Arms			
Vp	Power supply voltage	OS1076	24		90	Vdc			
If	Motor phase current (rms)	LS1076	2		6	Arms			
Vp	Power supply voltage	O\$1078	24		90	Vdc			
lf	Motor phase current (rms)	LS1078	4		10	Arms			
Vp	Power supply voltage	OS1084	45		160	Vdc			
lf .	Motor phase current (rms)	LS1084	2		4	Arms			
Vp	Power supply voltage		O\$1087	45		160	Vdc		
If	Motor phase current (rms)		LS1087	4		8.5	Arms		
Vp	Power supply voltage		O\$1098	45		240	Vdc		
If	Motor phase current (rms)	LS1098	4		10	Arms			
Res	Step resolution available			200, 400, 800, 1000, 1600,			Step /		
				2000, 3200, 4000, 5000, 6400,			Rev.		
				10000, 12	2800, 2500	0, 25600			
Vdi	Digital input voltage range			3		28	Vdc		
ldi	Digital input supply current			4	6	8	mA		
Vdo	Digital output voltage range			1		30	Vdc		
ldo	Digital output current range					50	mA		
Prt				oltage, Short		heating, Bre	ak phase		
Fch	Chopper frequency 20 Mechanical Specifications						KHz		
FDh	Height	OS1041(A), OS1044, OS1073(A)		18.0 (22.0) 29.0			mm		
		OS1044A, OS1048, OS1076, OS1078,							
		OS1084, OS1087, OS1098							
	L\$xxxx(A)			78.0 (78.0)					
FDI	Length OSxxxx(A)			105.0 (105.0)			mm		
FD	LSxxxx(A) Width OSxxxx(A)			110.0 (110.0)		*			
FDw	width	OSxxxx(A)		78.0 (78.0)			mm		
FDnw		L\$xxxx(A)		25.0 (35.0)			g		
	Weight	OS1041(A), OS1044(A), OS1073(A) OS1048, OS1076, OS1078, OS1084		90 (115) 180					
	weight	OS1048, OS1076, OS1078, OS1084 OS1087, OS1098		100					
	LSxxxx(A)				155 (180)		\dashv		
	LJAAAA(A)			I .	.00 (100)				

